Montana Natural Heritage Program

P.O. Box 201800, 1515 East Sixth Avenue Helena, MT 59620-1800

(406) 444-3009

http://nris.state.mt.us/mtnhp/

Plant Species of Special Concern

March, 1999

Introduction

The Montana Natural Heritage Program (MTNHP) maintains an inventory of the elements of biological diversity in Montana, including plant species, animal species, and plant communities that are known or suspected to be rare, sensitive, threatened, or endangered throughout their range or in Montana, or in need of further research.

The list of 334 vascular plant species of special concern and the list of 112 moss taxa and 3 lichen species of special concern in Montana summarizes current status and county distribution. The lists have been developed from numerous sources, including published and unpublished scientific literature, herbarium specimens, the Montana Rare Plant Project (Lesica *et al.* 1984), knowledgeable persons, a variety of cooperating agencies and organizations, and MTNHP field research.

These lists are periodically revised as new data become available. Changes since the most recent edition (Heidel 1997) are <u>underlined</u> for quick reference. New additions to the state flora--discoveries, annotations, taxonomic revisions, and obscure references--are in <u>bold and underlined</u>. Printed revisions are produced annually, while periodic updates will be available from our office or via our home page at http://nris.state.mt.us/mtnhp/.

The online Montana Rare Plant Field Guide (http://nris.state.mt.us/mtnhp/plants/) provides information on species status, general description, habitat, distribution, and references. It is accompanied by photographs of the species and their habitats and technical illustrations that aid in identification.

New location information for all species of special concern and watch species is always welcome. Comments and suggestions on list contents are invited, along with supporting documentation. The criteria for including species on the list and ranking them are available.

Search tools are now available online to determine the distribution of Montana plant species of special concern by county, by topographic quadrangle (7.5'), and by public land management unit. More detailed information requests can be placed by calling or writing MTNHP at the above address, via e-mail at mtnhp@nris.state.mt.us, or through the World Wide Web at http://nris.state.mt.us/mtnhp/request/.

HERITAGE PROGRAM RANKS

Taxa are evaluated and ranked by the Heritage Program on the basis of their global (range-wide) status, and their state-wide status according to a standardized procedure used by all Natural Heritage Programs (The Nature Conservancy 1992). These ranks are used to determine protection and data collection priorities, and are revised as new information becomes available.

For each level of distribution—global and state—species are assigned a numeric rank ranging from 1 (critically imperiled) to 5 (demonstrably secure). This reflects the species' relative endangerment and is based primarily on the number of occurrences of that species globally or within the state. However, other information such as date of collection, degree of habitat threat, geographic distribution patterns and population size and trends is considered when assigning a rank, and the number of occurrences listed below are suggestions, not absolute criteria.

For example, Clustered lady's-slipper (Cypripedium fasciculatum) is ranked G4 S2. That is, globally the species is apparently secure, while in Montana it is imperiled because of rarity, or because of other factors making it demonstrably vulnerable to extirpation.

RANK DEFINITION

1 Critically imperiled because of extreme rarity (5 or fewer occurrences, or very few remaining individuals), or because of some factor of its biology making it especially vulnerable to extinction.

Table of Contents	
Introduction 2000 1000 1000 1000 1000 1000 1000 100	
Map of Montana Counties	į
Vascular Plant List	14. Tale 1
Watch Vascular Plant List	18
Nonvascular Plant List	23
Appendices	
Forest Service Sensitive Plant List	1.8 (1.88)
BLM Sensitive Plant List	26
Survey Form (1997 Revision)	27

HERITAGE PROGRAM RANKS (continued)

RANK DEFINITION

- 2 Imperiled because of rarity (6 to 20 occurrences), or because of other factors demonstrably making it very vulnerable to extinction throughout its range.
- Vulnerable because of rarity (21 to 100 occurrences) or found in a restricted range even though it may be abundant at some of its locations.
- 4 Apparently secure, though it may be quite rare in parts of its range, especially at the periphery.
- Demonstrably secure, though it may be quite rare in parts of its range, especially at the periphery.
- U Possibly in peril, but status uncertain; more information needed.
- H Historical, known only from records over 50 year ago; may be rediscovered.
- X Believed to be extinct; historical records only.

OTHER HERITAGE CODES

G#G# Numeric range rank: A range between two of the S#S# numeric ranks. Denotes range of uncertainty about the exact rarity of the species.

SUBRANK

T Rank for subspecific taxon (subspecies or variety); appended to the global rank for the full species, e.g. G4T3.

OUALIFIERS

- Q Taxonomic questions or problems involved, more information needed; appended to the global rank, e.g. G3Q.
- ? Inexact or uncertain: for numeric ranks, denotes inexactness.

FISH AND WILDLIFE SERVICE STATUS

The symbols in this column denote the categories defined in the U.S. Fish and Wildlife Service Notice of Review (1980, 1983, 1985, 1990, 1993, 1996) and indicate the status of a taxon under the federal Endangered Species Act of 1973 (16 U.S.C.A. § 1531-1543 (Supp. 1996)).

- LE listed endangered (none in Montana)
- IT listed threatened (two in Montana)
- P proposed endangered or threatened (one in Montana)

FOREST SERVICE STATUS

The status of sensitive species on Forest Service lands is defined by the U.S. Forest Service Manual (2670.22). These taxa are listed as such by the Regional Forester (Northern Region) on National Forests in Montana.

- T/E/P listed as Threatened (LT) or Endangered (LE) under the Endangered Species Act or Proposed for listing as Threatened or Endangered (P); and known or suspected on national forests (also referred to as Type 1 scale of risk).
- S sensitive species, subspecies or variety, for which the Regional Forester has determined there is a concern for population viability rangewide or in the region (also referred to as Type 2 scale of risk for rangewide imperilment, and Type 3 scale of risk for regional imperilment).

BUREAU OF LAND MANAGEMENT STATUS

The status of species on Bureau of Land Management Lands is defined by the BLM 6840 Manual and designated by the Montana State Office of the BLM in 1996:

- S sensitive species--proven to be imperiled in at least part of its range and documented to occur on BLM lands.
- W watch species--either known to be imperiled and suspected to occur on BLM lands; suspected to be imperiled and documented on BLM lands; or needing further study for other reasons.

COUNTY DISTRIBUTION

Counties in which a species occurs are indicated by the first four letters of the county name, except Yellowstone National Park which is designated by YNPK. Distribution information reflects records in the Heritage Program's database at the time of the list update. These can include county records that are historic, extirpated, or unmappable.

RANGE NOTES

Taxa which are globally restricted to an area less than half the size of Montana are noted in this column as endemics.

- SE state endemic
- RE regional endemic, endemic species with range that extends beyond the state boundaries

The rest of the taxa have broader global distributions and are noted in this column as one of the following:

- D Disjunct
- P Peripheral
- S Sparse

Changes from the June, 1997 List

Additions and deletions to the state list are the result of new information resulting from fieldwork and taxonomic research.

Additions

VASCULAR PLANTS
Alnus rubra
Astragalus lackschewitzii
Balsamorhiza hookeri
Botrychium pallidum
Carex pallescens
Erigeron tener
Mimulus patulus
Puccinnellia lemmonii
Ribes laxiflorum
Ribes velutinum
Sisyrinchium septentrionale

BRYOPHYTES
Tortula caninervis

LICHENS
Cetraria subalpina
Collema curtisporum

DELETIONS

VASCULAR PLANTS Agoseris lackschewitzii Agrostis borealis Allium fibrillum Artemisia norvegica var. saxatilis Astragalus molybdenus Bidens comosa Botrychium minganense Calamagrostis tweedyi Carex nelsonii Carex neurophora Conioselinum scopulorum Cryptantha flavoculata Cryptantha humilis Gentiana prostrata Gentianella tenella Halenia deflexa Helenium hoopesii Juncus triglumis Mirabilis hirsuta Myosotis verna Salix cascadensis

Selected References

Dorn, R. D. 1984. Vascular Plants of Montana. Mountain West Publishing, Cheyenne, WY. 276 pp.

Flora of North America Editorial Committee, eds. 1993+. Flora of North America North of Mexico. 3+ vols. New York and Oxford. (Note: The Montana Plant Species of Special Concern is moving toward consistency with the taxonomic treatments in the Flora of North America.)

Lesica, P., G. Moore, K. M. Peterson, and J. H. Rumely. 1984. Vascular plants of limited distribution in Mon tana. Montana Academy of Science Monograph No. 2.

Lesica, P. and J. S. Shelly. 1991. Sensitive, threatened and endangered vascular plants of Montana. Montana Natural Heritage Program, Montana State Library, Helena, Montana

The Nature Conservancy, Conservation Science Divison, in association with the Network of Natural Heritage Programs and Conservation Data Centers. October 1992. Biological and Conservation Data System (Supplement 2+, released March, 1994). Arlington, Virginia.

U.S. Fish and Wildlife Service. 1996. Notice of Review of Plant and Animal Taxa for Listing as Endangered and Threatened Species. 61 FR 7596, February 28, 1996.

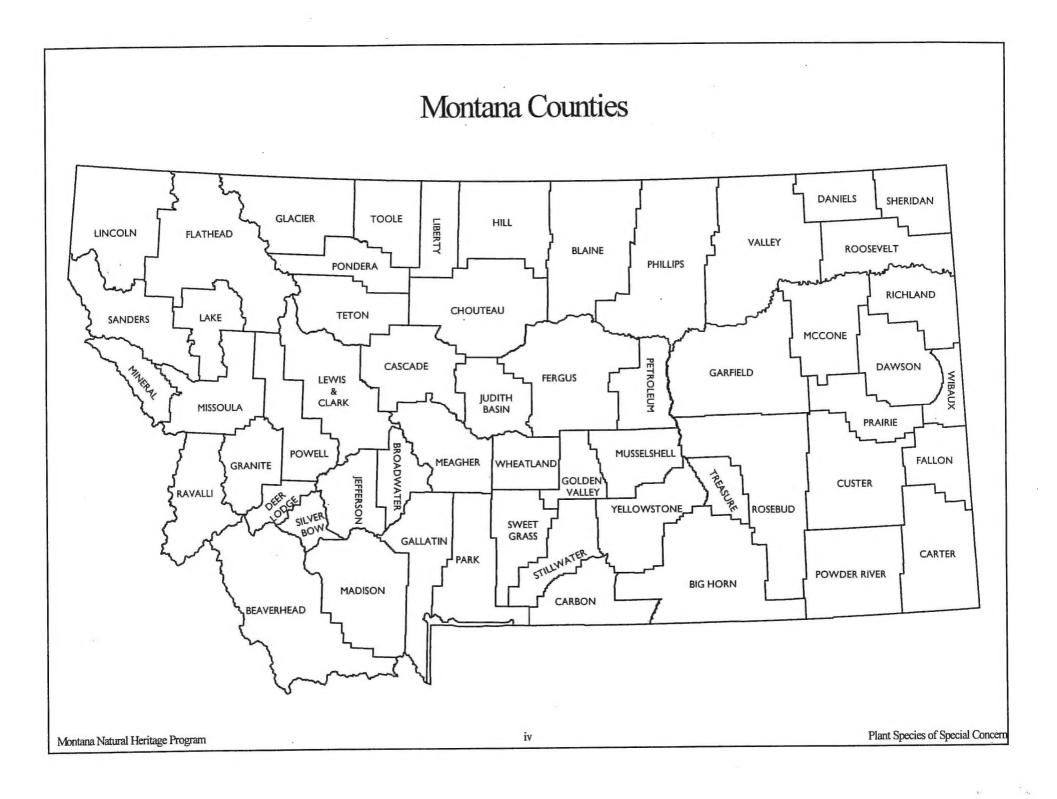
U.S. Fish and Wildlife Service. 1993. Endangered and threatened wildlife and plants. 50 CFR 17.11 & 17.12, August 23, 1993. U. S. Govt. Printing Office: 1993-342-477/94033. 40 pp.

More Information

Extensive additional information, including location data, is available on most species listed here. MTNHP serves as a clearinghouse for information on species of special concern in the state, and each year responds to hundreds of data requests.

The preferred citation for this document is:

Heidel, B. 1999. Montana plant species of special concern. [Unpublished list.] Montana Natural Heritage Program, Helena. 26 pp.



Vascular Plant Species of Special Concern, March 1999

Scientific Name Common Name	Family	Global Rank	State Rank	FWS Status	FS Status	BLM Status	County Distribution	Range Notes
Adoxa moschatellina Musk-root	Adoxaceae	G5	S1		S	W	Gran, Jeff, Stil	S
Agastache cusickii Cusick's Horse-mint	Lamiaceae	G3G4	S1		S	S	Beav	RE
Allium acuminatum Tapertip Onion	Liliaceae	G5	S1		S		Madi, Rava, Sand	P
Allium columbianum Columbia Onion	Liliaceae	G3	S1				Sand	D
Allium parvum Small Onion	Liliaceae	G5	S2		S		Rava	P
Allium simillimum Dwarf Onion	Liliaceae	G4	S1				Gall, Rava	RE
Allotropa virgata Candystick	Monotropaceae	G4	S3		S		Beav, Deer, Gran, Rava	D
Alnus rubra Red Alder	Betulaceae	<u>G5</u>	<u>S1</u>				Linc	D
Amerorchis rotundifolia Round-leaved Orchis	Orchidaceae	G5	S2S3		S	W	Flat, Glac, Lewi, Linc, Pond, Powe, Teto	P
Ammannia coccinea Scarlet Ammannia	Lythraceae	G5	<u>SH</u>				Garf, Phil	S
Amorpha canescens Lead Plant	Fabaceae	G5	SH				Cart, Rose	P
Antennaria densifolia Dense-leaved Antennaria	Asteraceae	G3	S1		S		Deer, Gran	D
Aquilegia brevistyla Short-styled Columbine	Ranunculaceae	G5	S2		S		Judi, Swee	D
Aquilegia formosa Sitka Columbine	Ranunculaceae	G5	S1				Beav	P
Arabis demissa var languida Daggett Rock Cress	Brassicaceae	G5 <u>T4</u>	S1			W	Carb	P
Arabis fecunda Sapphire Rockcress	Brassicaceae	G2	S2		S	S	Beav, Rava, Silv	SE
Arabis lyrata var kamchatica Lyre-leaf Rockcress	Brassicaceae	G5T5?	S1				Flat	P
Arctostaphylos patula Green-leaf Manzanita	Ericaceae	G4	S1				Lake, Sand	D
Asclepias incarnata Swamp Milkweed	Asclepiadaceae	G5	S1				Carb, Fall	P

MTNHP Vascular Plant Species of Special Concern, Scientific Name Common Name	Family	Global Rank	State Rank	FWS Status	FS Status	BLM Status	County Distribution	Range Notes
Asclepias ovalifolia Ovalleaf Milkweed	Asclepiadaceae	G5?	S1		S	W	Cart	P
Asclepias stenophylla Narrowleaf Milkweed	Asclepiadaceae	G4G5	S1			W	Cart, Rose	P
Asplenium trichomanes Maidenhair Spleenwort	Aspleniaceae	G5	SX				Flat	S
Aster frondosus Alkali Aster	Asteraceae	G4	S1				Sand	P
Aster glaucodes Gray Aster	Asteraceae	G4G5	S1				Carb	P
Astragalus aretioides Sweetwater Milkvetch	Fabaceae	G4	S2		_	W	BigH, Carb	RE
Astragalus barrii – Barr's Milkvetch	Fabaceae	G3	S3		S	W	BigH, Cart, Powd, Rose	RE
Astragalus ceramicus var apus Painted Milkvetch	Fabaceae	G4T3	S1			S	Beav	RE
Astragalus convallarius var convallarius Lesser Rushy Milkvetch	Fabaceae	G5T5	S2			W	Beav, Broa, Jeff, Lewi	P D
Astragalus geyeri var geyeri Geyer's Milkvetch	Fabaceae	G4?T4?	S2			S	Carb, Cust, Daws, Garf	RE
Astragalus grayi Gray's Milkvetch	Fabaceae	G4?	SI		2		Carb	RE
Astragalus lackschewitzii Lackschewitz' Milkvetch	Fabaceae	<u>G2</u>	<u>S2</u>		S	***	Teto	RE RE
Astragalus oreganus Wind River Milkvetch	Fabaceae	G4?	S1			W	Carb	
Astragalus racemosus var longisetus Raceme Milkvetch	Fabaceae	G5T4	<u>S2</u>			W	Cart, Fall	P
Astragalus scaphoides Bitterroot Milkvetch	Fabaceae	G3	S2		S	S	Beav	RE
Astragalus terminalis Railhead Milkvetch	Fabaceae	<u>G3</u>	S2			S	Beav, Madi	RE
Athysanus pusillus Sandweed	Brassicaceae	G4	S1		S		Rava	P
Atriplex truncata Wedge-leaved Saltbush	Chenopodiaceae	G5	SH			W	Beav, Lake, Lewi	S
Bacopa rotundifolia Roundleaf Water-hyssop	Scrophulariaceae	G5	SI			W	Casc, Ferg, Garf, Phil	S
Balsamorhiza hookeri Hooker's Balsam-root	Asteraceae	<u>G5</u>	<u>S1</u>				Beav	P

MTNHP Vascular Plant Species of Special Concern, March 1999

Scientific Name Common Name	Family	Global Rank	State Rank	FWS Status	FS Status	BLM Status	County Distribution	Range Notes
Balsamorhiza macrophylla Large-leafed Balsamroot	Asteraceae	G3G5	S1		S	W	Beav, Gall, Madi	P
Beck Water-marigold	Asteraceae	G4	S2		S		Flat, Lake, Linc, Miss	P
Boisduvalia densiflora Dense Spike-primrose	Onagraceae	G5	SH				Sand	P
Botrychium ascendens Upward-lobed Moonwort	Ophioglossaceae	G3	S1		S		Flat, Lewi, Linc	S
Botrychium campestre Prairie Dunewort	Ophioglossaceae	G3	S1				Flat	S
Botrychium crenulatum Wavy Moonwort	Ophioglossaceae	G3	S2		S		Flat, Gran, Lake, Linc, Miss, Sand	S
Botrychium hesperium Western Moonwort	Ophioglossaceae	G3	<u>S2</u>		S		Deer, Flat, Glac	S
Botrychium lineare Linearleaf Moonwort	Ophioglossaceae	G1	S1				Glac, Lake	S
Botrychium montanum Mountain Moonwort	Ophioglossaceae	G3	S3		S		Flat, Lake, Linc, Miss, Sand	S
Botrychium pallidum Pale Moonwort	Ophioglossaceae	<u>G2</u>	<u>S1</u>				Flat	S
Botrychium paradoxum Peculiar Moonwort	Ophioglossaceae	G2	<u>S2</u>		S		Deer, Flat, Glac, Gran, Jeff, Lake, Linc, Pond, Teto	S
Botrychium pedunculosum Stalked Moonwort	Ophioglossaceae	<u>G2?</u>	SI		S		Flat, Linc	S
Botrychium spathulatum Spoon-leaf Moonwort	Ophioglossaceae	G3G4	SI				Lake	S
Brasenia schreberi Watershield	Cabombaceae	G5	S2		S		Flat, Lake, Linc, Miss	S
Braya humilis Low Braya	Brassicaceae	G4	S1				Beav	S
Calochortus bruneaunis Bruneau Mariposa Lily	Liliaceae	G5	SH				Beav	P
Camissonia andina Obscure Evening-primRose	Onagraceae	G4	S1			S	Carb, Miss, Rava	P
Camissonia parvula Small Camissonia	Onagraceae	G4	S 1			S	Carb	P
Cardamine oligosperma var kamtschatica Few-seeded Bittercress	Brassicaceae	G5T?	S1				Flat	P
Carex amplifolia Big-leaf Sedge	Cyperaceae	G4	S1		S		Sand	P

MTNHP Vascular Plant Species of Special Concern, March 1999

Scientific Name Common Name	Family	Global Rank	State Rank	FWS Status	FS Status	BLM Status	County Distribution	Range Notes
Carex chordorrhiza Creeping Sedge	Cyperaceae	G5	S2		S		Flat, Linc, Powe	P
Carex comosa Bristly Sedge	Cyperaceae	G5	S1				Flat	S
Carex crawei Craw's Sedge	Cyperaceae	G5	S2			S	Casc, Pond, Powe, Prai, Teto	S
Carex gravida var gravida Pregnant Sedge	Cyperaceae	G5T?	S1		S	W	BigH, Powd, Rose	P
Carex incurviformis var incurviformis Maritime Sedge	Cyperaceae	G4G5T?	S1				Deer, Glac, Teto	S
Carex lenticularis var dolia Goose-grass Sedge	Cyperaceae	G5T3Q	<u>S2</u>				Flat, Glac	RE
Carex livida Pale Sedge	Cyperaceae	G5	S3		S		Flat, Glac, Lake, Lewi, Miss, Powe, Teto	P
Carex multicostata Many-ribbed Sedge	Cyperaceae	G5	S1			W	Beav, Gall, Park	P
Carex norvegica ssp inserrulata Toothed Scandinavian Sedge	Cyperaceae	G5T?Q	S1				Carb, Park, Stil	D
Carex norvegica ssp stevenii Steven's Scandinavian Sedge	Cyperaceae	G5T?	S1				Deer	P
Carex occidentalis Western Sedge	Cyperaceae	G4	SH			W	Beav	P
Carex pallescens Palish Sedge	Cyperaceae	<u>G5</u>	<u>S1</u>				Rava	D
Carex parryana ssp idahoa Idaho Sedge	Cyperaceae	G4T2	S2		S	S	Beav, Gall, Madi, Powe, Silv	RE
Carex paupercula Poor Sedge	Cyperaceae	G5	S3		S		Flat, Lake, Linc, Miss, Rava, Teto	P
Carex petricosa Rock Sedge	Cyperaceae	G4	S1				Glac	P
Carex prairea Prairie Sedge	Cyperaceae	G5?	S1		S		Flat, Linc	P
Carex rostrata Beaked Sedge	Cyperaceae	G5	S1		S		Flat, Linc, Miss	P
Carex scoparia Pointed Broom Sedge	Cyperaceae	G5	<u>S2</u>				Miss, Rava	S
Carex stenoptila Small-winged Sedge	Cyperaceae	G3?	<u>S2</u>				Flat, Rava, YNPK	S
Carex sychnocephala Many-headed Sedge	Cyperaceae	G4	S1				Casc, Glac, Lake, Linc, Sher	S

MTNHP Vascular Plant Species of Special Concern, March 1999

Scientific Name Common Name	Family	Global Rank	State Rank	FWS Status	FS Status	BLM Status	County Distribution	Range Notes
Carex tenuiflora Thin-flowered Sedge	Cyperaceae	G5	S1				Flat	P
Carex tincta . Slender Sedge	Cyperaceae	G4G5	SU				Glac, Lake, Park	P
Carex vaginata Sheathed Sedge	Cyperaceae	G5	S1		S		Linc	P
Castilleja cervina Deer Indian Paintbrush	Scrophulariaceae	G3G4	S1				Flat, Miss, Powe	RE
Castilleja covilleana Coville Indian Paintbrush	Scrophulariaceae	G3G4	S2		S		Rava	RE
Castilleja exilis Annual Indian Paintbrush	Scrophulariaceae	G5	S2				Broa, Deer, Gall, Jeff, Madi, Park	P
Castilleja gracillima Slender Indian Paintbrush	Scrophulariaceae	G3G4	S2		S	W	Gall, Madi, Park, YNPK	RE
Ceanothus herbaceus var pubescens New Jersey Tea	Rhamnaceae	G5T?	SH			W	Powd	P
Celastrus scandens Bittersweet	Celastraceae	G5	S1			W	Daws	P
Centaurium exaltatum Western Centaury	Gentianaceae	G5	SH				BigH	S
Centunculus minimus Chaffweed	Primulaceae	G5	S1			W	Casc, Lake, Miss, Rava	S
Cercocarpus montanus var glaber Birchleaf Mountain-mahogany	Rosaceae	G5TU	S1			W	Trea	P
Chenopodium subglabrum Smooth Goosefoot	Chenopodiaceae	<u>G3G4</u>	S1			W	Cart, Casc, Cust	RE?
Chrysosplenium tetrandrum Northern Golden-carpet	Saxifragaceae	G5	S3				Gran, Rava	P
Chrysothamnus parryi ssp montanus Parry's Mountain Rabbitbrush	Asteraceae	G5T1	S1		,	W	Beav	RE
Cirsium brevistylum Short-styled Thistle	Asteraceae	G4	<u>S2</u>				Flat, Mine, Sand	P
Cirsium longistylum Long-styled Thistle	Asteraceae	G2Q	S2		S		Broa, Casc, Jeff, Judi, Lewi, Meag, Whea	SE
Clarkia rhomboidea Common Clarkia	Onagraceae	G4	S2		S		Linc, Sand	. P
Claytonia arenicola Sand Springbeauty	Portulacaceae	G4	S1		S		Sand	P
Cleome lutea Yellow Bee Plant	Capparaceae	G5	S1			W	BigH, Carb	P

MTNHP Vascular Plant Species of Special Concern, March 1999

Scientific Name Common Name	Family	Global Rank	State Rank	FWS Status	FS Status	BLM Status	County Distribution	Range Notes
Collomia tinctoria Yellow-staining Collomia	Polemoniaceae	G5	S1				Casc, Flat, Lake, Rava	P
Corydalis sempervirens Pale Corydalis	Fumariaceae	G4G5	S1				Flat, Glac, Linc	P
Cryptantha fendleri Fendler Cat's-eye	Boraginaceae	G4	S1			W	Beav, Sher	S
Cryptantha scoparia Miner's Candle	Boraginaceae	<u>G3</u>	S1			S	Carb	D
Cyperus acuminatus Short-pointed Flatsedge	Cyperaceae	G5	S1			W	Casc, Sand	S
Cyperus erythrorhizos Red-root Flatsedge	Cyperaceae	G5	SH				Flat, Miss	S
Cyperus rivularis Shining Flatsedge	Cyperaceae	G5	S1				Miss, Rava	S
Cyperus schweinitzii Schweinitz' Flatsedge	Cyperaceae	G5	<u>S2</u>			W	Cart, Casc, Cust, Sher	P
Cypripedium fasciculatum Clustered Lady's-slipper	Orchidaceae	G4	S2		S		Lake, Mine, Sand	P
Cypripedium parviflorum Small Yellow Lady's-slipper	Orchidaceae	G5	<u>S3</u>		S	W	Flat, Gall, Gran, Judi, Lake, Lewi, Linc, Miss, Park, Stil, Swee, Teto	S
Cypripedium passerinum Sparrow's-egg Lady's-slipper	Orchidaceae	G4G5	S2		S		Flat, Lake, Lewi, Linc, Pond, Powe, Teto	P
Cystopteris montana Mountain Bladder Fern	Dryopteridaceae	G5	SH				Glac	P
Dalea enneandra Nine-anther Dalea	Fabaceae	G5	S1			W	Cust, Rich	Р
Dalea villosa var villosa Silky Prairie Clover	Fabaceae	G5T?	S1			W	Cart, Rich, Sher	P
Dichanthelium oligosanthes var scribnerianum Scribner's Panic Grass	Poaceae	G5T5	S1			W	Lake, Powd	S
Downingia laeta Great Basin Downingia	Campanulaceae	G5	S1			W	Beav, Lewi, Teto	S
Draba densifolia Dense-leaf Draba	Brassicaceae	G5	S2				Flat, Glac, Jeff, Lewi, Park, Pond, Silv	S
Draba fladnizensis White Arctic Draba	Brassicaceae	G4	S1				Carb, Deer, Madi, Stil	S
Draba globosa Round-fruited Draba	Brassicaceae	<u>G3</u>	S1			W	Beav, Madi	RE
Draba macounii Macoun's Draba	Brassicaceae	<u>G3G4</u>	S1				Flat, Glac	P

Scientific Name Common Name	Family	Global Rank	State Rank	FWS Status	FS Status	BLM Status	County Distribution	Range Notes
<i>Draba porsildii</i> Porsild's Draba	Brassicaceae	<u>G3G4</u>	S1				Carb	D
Draba ventosa Wind River Draba	Brassicaceae	G3	S1				Beav, Madi	S
Drosera anglica English Sundew	Droseraceae	G5	S2		S		Flat, Gall, Lake, Lewi, Linc, Madi, Miss, Powe, Rava, Sand	S
Drosera linearis Linear-leaved Sundew	Droseraceae	G4	S1		S		Flat, Lewi, Powe	P
Dryas integrifolia Entire-leaved Avens	Rosaceae	G5	S1				Ferg, Gold	P
Dryopteris cristata Buckler Fern	Dryopteridaceae	G5	S2		S		Flat, Lake, Linc, Miss, Rava	P
Elatine brachysperma Short-seeded Water-wort	Elatinaceae	G5	SU				Gall, Miss	S
Elatine californica California Waterwort	Elatinaceae	G5	SU				Casc, Lake	P
Eleocharis rostellata Beaked Spikerush	Cyperaceae	G5	S2		S	W	Carb, Flat, Lake, Madi, Sand, Teto	S
Elodea longivaginata Long Sheath Waterweed	Hydrocharitaceae	G4G5	S1			W	Glac, Libe, Phil	S
Elymus flavescens Sand Wildrye	Poaceae	G4	S1			S	Beav	P
Elymus innovatus Northern Wild-rye	Poaceae	G5	S 1		S		Casc, Glac, Pond	P
Epipactis gigantea Giant Helleborine	Orchidaceae	G4	S2		S	W	Carb, Casc, Flat, Gran, Lake, Madi, Powe, Teto	S
Erigeron asperugineus Idaho Fleabane	Asteraceae	G4	S 1		S	W	Beav, Madi, Rava	RE
Erigeron eatonii ssp eatonii Eaton's Daisy	Asteraceae	G5T5	S1				Flat, Swee	P
Erigeron evermannii Evermann Fleabane	Asteraceae	G4	S1		S		Rava	RE
Erigeron formosissimus var viscidus Beautiful Fleabane	Asteraceae	G5T4	S1			W	Carb, Deer, Madi, Park, Rava	D
Erigeron lackschewitzii Lackschewitz' Fleabane	Asteraceae	G3Q	S3		S		Flat, Lewi, Pond, Teto	RE
Erigeron leiomerus Smooth Fleabane	Asteraceae	G4	S1				Beav, Madi	P
Erigeron linearis Linearleaf Fleabane	Asteraceae	G5	S1				Beav, Lewi, Rava	P

Scientific Name Common Name	Family	Global Rank	State Rank	FWS Status	FS Status	BLM Status	County Distribution	Range Notes
Erigeron tener Slender Fleabane	Asteraceae	<u>G4</u>	<u>S1</u>				Beav	P
Eriogonum caespitosum Mat Buckwheat	Polygonaceae	G5	S1				Beav	P
Eriogonum salsuginosum Smooth Buckwheat	Polygonaceae	G4?	S1			S	Carb	P
Eriogonum visheri Visher's Buckwheat	Polygonaceae	G3	S1				Cart	RE
Eriophorum callitrix Sheathed Cotton-grass	Cyperaceae	G5	S1				Carb	S
Eriophorum gracile Slender Cottongrass	Cyperaceae	G5	<u>S2</u>		S		Flat, Lake, Linc, Madi	P
Eupatorium maculatum var bruneri Joe-pye Weed	Asteraceae	G5TU	S1			W	BigH, Carb	P
Eupatorium occidentale Western Boneset	Asteraceae	G4	<u>S2</u>		S		Mine, Rava	P
Euphrasia arctica var disjuncta Disjunct Eyebright	Scrophulariaceae	G5	S1				Glac	P
Eustoma grandiflorum Showy Prairie-gentian	Gentianaceae	G5	S1			W	McCo	D
Festuca vivipara Viviparous Fescue	Poaceae	G4G5Q	S2				Flat, Glac	P
Gentiana glauca Glaucous Gentian	Gentianaceae	G4G5	S1				Flat	P
Gentianopsis macounii Macoun's Gentian	Gentianaceae	G5	S1		S	W	Glac, Teto	P
Gentianopsis simplex Hiker's Gentian	Gentianaceae	G4	S1		S	W	Beav, Carb, Miss	P
Glossopetalon nevadense Spiny Greenbush	Crossosomataceae	G5?Q	S1		S		Rava	P
Goodyera repens Northern Rattlesnake-plantain	Orchidaceae	G5	S3		S		Ferg, Flat, Judi, Meag, Whea	S
Gratiola ebracteata Bractless Hedge-hyssop	Scrophulariaceae	G4	S1				Casc, Glac, Teto, Yell	S
Grayia spinosa Spiny Hopsage	Chenopodiaceae	G5	S2			W	Beav, BigH, Carb	P
Grindelia howellii Howell's Gum-weed	Asteraceae	G3	S2S3		S		Miss, Powe	RE
Gymnosteris parvula Small-flower Gymnosteris	Polemoniaceae	G4	SH				Gall	P

MTNHP Vascular Plant Species of Special Concern, March 1999

Scientific Name Common Name	Family	Global Rank	State Rank	FWS Status	FS Status	BLM Status	County Distribution	Range Notes
Halimolobos perplexa var lemhiensis Puzzling Rockcress	Brassicaceae	G4T4	S1		S		Rava	SE
Haplopappus aberrans Idaho Golden-weed	Asteraceae	G3	S1		S		Rava	RE
Haplopappus carthamoides var subsquarrosus Beartooth Large-flowered Goldenweed	Asteraceae	G4G5T2T3	S2		S	W	Carb	RE
Haplopappus macronema var macronema Discoid Goldenweed	Asteraceae	G4G5T4	S1		S		Beav, Gall	P
Haplopappus nanus Dwarf Goldenweed	Asteraceae	G5	SI				Beav	P
Haplopappus pygmaeus Pygmy Goldenweed	Asteraceae	G4	SH				Deer, Gall	P
Hemicarpha drummondii Drummond's Hemicarpha	Cyperaceae	G4G5	SH				Carb	P
Heteranthera dubia Water Star-grass	Pontederiaceae	G5	S1		S		Flat, Sand	S
Heterocodon rariflorum Western Pearl-flower	Campanulaceae	G5	S1		S		Lake, Rava, Sand	S
Howellia aquatilis Water Howellia	Campanulaceae	G2	S2	LT	LT		Lake, Miss	S
Hutchinsia procumbens Hutchinsia	Brassicaceae	G5	S 1			W	Beav, Carb, Powe	P
Idahoa scapigera Scalepod	Brassicaceae	G5	S1		S		Rava	P
Ipomopsis congesta ssp crebrifolia Ballhead Gilia	Polemoniaceae	G5 <u>T4?</u>	S2				Beav	RE
Ipomopsis minutiflora Small-flower Standing-cypress	Polemoniaceae	G2G3	S1				Rava	D
Juncus acuminatus Tapered Rush	Juncaceae	G5	S1				Teto	S
Juncus albescens Three-flowered Rush	Juncaceae	G5	S2				Flat, Glac	S
Juncus covillei var covillei Coville's Rush	Juncaceae	G4G5T5	<u>S1</u>				Mine, Miss, Rava	P
Juncus covillei var obtusatus Coville's Blunt Rush	Juncaceae	G4G5T4	<u>S1</u>				Rava	P
Juncus hallii Hall's Rush	Juncaceae	G4G5	S2		S		Beav, Madi, Meag, Powe, Silv	P
Kalmia polifolia Pale Laurel	Ericaceae	G5	S1		S		Flat, Miss	P

MTNHP Vascular Plant Species of Special Concern, March 1999

MTNHP Vascular Plant Species of Special Concern	, March 1999		a	TW47.0	TO .	D7 3.6		Range
Scientific Name Common Name	Family	Global Rank	State Rank	FWS Status	FS Status	BLM Status	County Distribution	Notes
Kelloggia galioides Kelloggia	Rubiaceae	G5	S1				Mine	P
Kobresia macrocarpa Large-fruited Kobresia	Cyperaceae	G5	SI				Carb	P
Kobresia simpliciuscula Simple Kobresia	Cyperaceae	G5	S2				Beav, Glac, Gran, Park, Teto	S
Kochia americana Red Sage	Chenopodiaceae	G5	<u>S1</u>				Beav	P
Koenigia islandica Island Koenigia	Polygonaceae	G4	S1				Carb	D
Lagophylla ramosissima Slender Hareleaf	Asteraceae	G5	S1				Lake, Sand	P
Lathyrus bijugatus Latah Tule Pea	Fabaceae	G4	S1		S		Flat, Linc	RE
Leptodactylon caespitosum Leptodactylon	Polemoniaceae	G3G4	<u>S2</u>			W	Carb	Р
Lesquerella carinata var languida Garnet Bladderpod	Brassicaceae	G3G4T1	S1			S	Gran	SE
Lesquerella humilis Bitterroot Bladderpod	Brassicaceae	G1	S1		S		Rava	SE
Lesquerella lesicii Lesica's Bladderpod	Brassicaceae	G1	S1			S	Carb	SE
Lesquerella paysonii Payson Bladderpod	Brassicaceae	G3	S1		S		Beav, Gran	RE
Lesquerella pulchella Beautiful Bladderpod	Brassicaceae	G2	S2		S	S	Beav	SE
Lewisia columbiana var wallowensis Columbia Lewisia	Portulacaceae	G4T4	S 1				Rava	RE
Lewisia pygmaea var nevadensis Nevada Bitterroot	Portulacaceae	G4	S1				Beav, Deer, Rava	P
Lilaea scilloides Flowering Quillwort	Juncaginaceae	<u>G5?</u>	S1				Lake	P
Liparis loeselii Loesel's Twayblade	Orchidaceae	<u>G5</u>	S1		S		Lake	P
Lobelia spicata Pale-spiked Lobelia	Campanulaceae	G5	<u>S1</u>				Rich, Sher	P
Lomatium attenuatum Taper-tip Desert-parsley	Apiaceae	<u>G3</u>	S2			S	Beav, Madi	RE
Lomatium geyeri Geyer's Biscuitroot	Apiaceae	G3G4	S1		S		Line	RE

MTNHP Vascular Plant Species of Special Concern, March 1999

Scientific Name Common Name	Family	Global Rank	State Rank	FWS Status	FS Status	BLM Status	County Distribution	Range Notes
Lomatium nuttallii Nuttall Desert-parsley	Apiaceae	<u>G3G4</u>	S1			W	BigH	P
Lomatogonium rotatum Felwort	Gentianaceae	G5	SI		S	W	Beav	S
Lycopodium dendroideum Treelike Clubmoss	Lycopodiaceae	G5	S1		S		Flat, Glac, Linc	P
Lycopodium inundatum Northern Bog Clubmoss	Lycopodiaceae	G5	S1		S		Flat, Miss	P
Lycopodium lagopus Running Pine	Lycopodiaceae	G5T?	S1				Glac	P
Lycopodium sitchense Alaskan Clubmoss	Lycopodiaceae	G5	<u>S3</u>		S		Glac, Flat, Linc, Miss, Rava	P
Maianthemum canadense var interius Wild Lily-of-the-Valley	Liliaceae	G5T4	<u>SH</u>				Cart	P
Malacothrix torreyi Desert Dandelion	Asteraceae	G4	S1			S	Carb	D
Mentzelia montana White-bract Stickleaf	Loasaceae	G4	<u>SH</u>				Cust	P
Mentzelia nuda Bractless Mentzelia	Loasaceae	G5	S1			W	Cust, Daws, Vall	P
Mentzelia pumila Dwarf Mentzelia	Loasaceae	G4	S2			W	Carb	P
Mertensia bella Oregon Bluebells	Boraginaceae	G4	SI		S		Miss	D
Mimulus breviflorus Short-flowered Monkeyflower	Scrophulariaceae	G4	S1				Flat	P
Mimulus nanus Dwarf Purple Monkeyflower	Scrophulariaceae	G5	S1				Gall, Rava	P
Mimulus patulus Washington Monkeyflower	Scrophulariaceae	<u>G2Q</u>	<u>S1</u>		S		Flat	D
Mimulus primuloides Primrose Monkeyflower	Scrophulariaceae	G4	S2		S		Beav, Rava	P
Najas guadalupensis Guadalupe Water-nymph	Najadaceae	G5	SI			W	Casc, Flat, Lake, Rava	P
Nama densum Nama	Hydrophyllaceae	G5	S1			S	Carb	P
Nuttallanthus texanus Blue Toadflax	Scrophulariaceae	G4G5	SI			W	Cart, Daws	P
Nymphaea tetragona Pygmy Water-lily	Nymphaeaceae	G5	S1				Flat, Lake, Miss	D

HP Vascular Plant Species of Special Concern, March 1999								
Scientific Name Common Name	Family	Global Rank	State Rank	FWS Status	FS Status	BLM Status	County Distribution	Range Notes
Oenothera pallida var idahoensis Pale Evening-primrose	Onagraceae	G5T4Q	S1			S	Beav	RE
Ophioglossum pusillum Adder's Tongue	Ophioglossaceae	G5	S2		S		Flat, Lake, Linc, Miss	S
Orogenia fusiformis Tapered-root Orogenia	Apiaceae	G5	S2		S		Beav, Madi, Miss, Rava	P
Oxytropis campestris var columbiana Columbia Crazyweed	Fabaceae	G5T3	S1		S		Flat, Lake	RE
Oxytropis deflexa var foliolosa Pendent-pod Crazyweed	Fabaceae	G5T?	S1				Madi	S
Oxytropis parryi Parry's Crazyweed	Fabaceae	G5	S1				Beav	P
Oxytropis podocarpa Stalked-pod Crazyweed	Fabaceae	G4	S1		S		Glac, Teto	S
Papaver kluanensis Alpine Poppy	Papaveraceae	G3?Q	S1				Carb, Park, Swee	S
Penstemon angustifolius Narrowleaf Penstemon	Scrophulariaceae	G5	S2			W	Cart, Daws, Miss	P
Penstemon attenuatus var militaris Taper-leaved Beardtongue	Scrophulariaceae	G4T4	S1				Rava	RE _
Penstemon globosus Globe Beardtongue	Scrophulariaceae	G4	S2				Gran	P
Penstemon grandiflorus Large Flowered Beardtongue	Scrophulariaceae	G5?	S1				Cust	P
Penstemon lemhiensis Lemhi Beardtongue	Scrophulariaceae	G3	S2		S	S	Beav, Deer, Rava, Silv	RE
Penstemon payettensis Payette Beardtongue	Scrophulariaceae	G4	S1		S		Rava	RE
Penstemon whippleanus Whipple's Beardtongue	Scrophulariaceae	G5	S1			S	Beav, Madi	P
Petasites frigidus var nivalis Palmate-leaved Coltsfoot	Asteraceae	G5T?	SI		S		Flat, Glac	P
Phacelia incana Hoary Phacelia	Hydrophyllaceae	G3	S2			W	Beav	P
Phacelia scopulina Dwarf Phacelia	Hydrophyllaceae	G4	SH			W	Madi, Silv	D
Phacelia thermalis Hot Spring Phacelia	Hydrophyllaceae	G3G4	S1			W	Ferg, Garf, Phil	D
Phippsia algida Ice Grass	Poaceae	G5	S2				Carb, Stil	D

Scientific Name Common Name	Family	Global Rank	State Rank	FWS Status	FS Status	BLM Status	County Distribution	Range Notes
Phlox andicola Plains Phlox	Polemoniaceae	G4	<u>S2</u>			w	Cart, Daws, Rose, Sher	P
Phlox kelseyi var missoulensis Missoula Phlox	Polemoniaceae	G2	S2		S		Casc, Gran, Judi, Lewi, Meag, Miss, Powe	SE
Physaria brassicoides Double Bladderpod	Brassicaceae	G5	S1				Cart	RE
Physaria didymocarpa var lanata Woolly Twinpod	Brassicaceae	G5T2	SU				BigH	RE
Plagiobothrys leptocladus Slender-branched Popcorn-flower	Boraginaceae	G4	S1			W	Cust, Glac, Phil	D
Poa curta Short-leaved Bluegrass	Poaceae	G4	S1			W	Carb	P
Poa laxa ssp banffiana Banff Loose-flowered Bluegrass	Poaceae	G5?T1	<u>S1</u>				Glac	D
Polygonum douglasii ssp austinae Austin's Knotweed	Polygonaceae	G5T4	S2S3		S		Broa, Flat, Lewi, Madi, Pond, Teto	S
Polystichum kruckebergii Kruckeberg's Sword-fern	Dryopteridaceae	G4	S1				Deer, Flat, Lake, Miss	P
Polystichum scopulinum Mountain Holly-fern	Dryopteridaceae	G5	S1				Rava, Sand	P
Potamogeton obtusifolius Blunt-leaved Pondweed	Potamogetonaceae	G5	S2		S		Flat, Glac, Lake, Miss	P
Potentilla brevifolia Short-leaved Cinquefoil	Rosaceae	G4	S1				Madi	RE
Potentilla hyparctica Low Arctic Cinquefoil	Rosaceae	G4G5	S1				Carb	S
Potentilla plattensis Platte Cinquefoil	Rosaceae	G4	S1			W	Beav, BigH, Carb	S
Potentilla quinquefolia Five-leaf Cinquefoil	Rosaceae	G5T4	S2		S		Flat, Glac, Madi, Pond, Vall, YNPKKK	S
Potentilla uniflora One-flowered Cinquefoil	Rosaceae	G5	S1				Carb, Flat, Glac, Gran	S
Primula alcalina Idaho PrimRose	Primulaceae	G1	<u>SX</u>			W	Beav	RE
Primula incana Mealy PrimRose	Primulaceae	G4G5	S2			W	Beav, Broa, Carb, Deer, Gall, Jeff, Madi, Sher, Teto	P
Prunus pumila Sand Cherry	Rosaceae	G5	S1				Fall	P
Psilocarphus brevissimus var brevissimus Dwarf Woolly-heads	Asteraceae	G5T?	<u>S2</u>		S	W	Casc, Petr, Phil, Sand	S

Scientific Name Common Name	Family	Global Rank	State Rank	FWS Status	FS Status	BLM Status	County Distribution	Range Notes
Psoralea hypogaea Little Indian Breadroot	Fabaceae	G5T4	S2			W	Cart, CACS, Chou, Ferg, Gold, Powd, Rose	P
Puccinellia lemmonii Lemmon's Alkaligrass	Poaceae	<u>G4</u>	<u>S1</u>				Beav	P
Quercus macrocarpa Bur Oak	Fagaceae	G5	S1			S	Cart	P
Ranunculus cardiophyllus Heart-leaved Buttercup	Ranunculaceae	G4G5	S2			W	Glac, Swee, Tool	S
Ranunculus gelidus Arctic Buttercup	Ranunculaceae	G4	S1				Stil	D
Ranunculus hyperboreus High-arctic Buttercup	Ranunculaceae	G5	S1				Deer, Gall	P
Ranunculus jovis Jove's Buttercup	Ranunculaceae	G4	S2		S		Beav, Gall, Madi, Park	RE
Ranunculus orthorhynchus var platyphyllus Straightbeak Buttercup	Ranunculaceae	G5T5	S1				Deer, Gran, Mine	Р
Ranunculus pedatifidus Northern Buttercup	Ranunculaceae	G5	S 1			W	Flat, Glac, Gran, Libe, Tool	S
Ranunculus verecundus Timberline Buttercup	Ranunculaceae	G5	\$2				Deer, Flat, Glac, Madi	S
Ribes cognatum Shinyleaf Gooseberry	Grossulariaceae	G4Q	S1				Linc, Mine, Sand	RE
Ribes laxiflorum Trailing Black Currant	Grossulariaceae	<u>G5</u>	<u>S1</u>				Linc	D
Ribes triste Swamp Red Currant	Grossulariaceae	G5	S1				Deer, Gran, Mine, Rava	P
Ribes velutinum Desert Goosebery	Grossulariaceae	<u>G5</u>	<u>S1</u>				Beav	P
Rorippa calycina Persistent-sepal Yellow-cress	Brassicaceae	G3	S1			W	Casc, Chou, Cust, McCo, Yell	RE
Rotala ramosior Toothcup	Lythraceae	G5	S1				Lake, Miss, Rava	P
Sagina nivalis Arctic Pearlwort	Caryophyllaceae	G5	S1				Glac	D
Salix barrattiana Barratt's Willow	Salicaceae	G5	S1		S		Carb, Glac	S
Salix serissima Autumn Willow	Salicaceae	G4	S2			W	Glac, Meag, Teto	P
Salix wolfii var wolfii Wolf's Willow	Salicaceae	G5?T4	<u>S3</u>		S		Deer, Gall, Madi, Park, Rava, Swee	P

Scientific Name Common Name	Family	Global Rank	State Rank	FWS Status	FS Status	BLM Status	County Distribution	Range Notes
Satureja douglasii Yerba Buena	Lamiaceae	G4	S2				Miss, Rava, Sand	P
Saussurea densa Dwarf Saw-wort	Asteraceae	G3G5	S2				Flat, Lewi, Pond, Teto	RE
Saussurea weberi Weber's Saw-wort	Asteraceae	G3Q	S1		S		Gran	D
Saxifraga apetala Tiny Swamp Saxifrage	Saxifragaceae	G3Q	S2				Beav, Carb	RE
Saxifraga hirculus Yellow Marsh Saxifrage	Saxifragaceae	G5	S1				Carb	S
Saxifraga tempestiva Storm Saxifrage	Saxifragaceae	G2	S2		S		Beav, Deer, Gran, Madi, Rava	SE
Scheuchzeria palustris Pod Grass	Scheuchzeriaceae	G5	S2		S		Flat, Lake, Linc, Miss	P
Scirpus cespitosus Tufted Club-rush	Cyperaceae	G5	S2		S		Beav, Flat, Linc, Powe, Teto	S
Scirpus heterochaetus Slender Bulrush	Cyperaceae	G5	S1				Sher	S
Scirpus hudsonianus Hudson's Bay Bulrush	Cyperaceae	G5	S1				Flat, Glac	P
Scirpus pumilus ssp rollandii Small Clubrush	Cyperaceae	G3Q	S1				Glac, Teto	P
Scirpus subterminalis Water Bulrush	Cyperaceae	G4G5	S2		S		Flat, Lewi, Linc, Miss	S
Selaginella selaginoides Low Spike-moss	Selaginellaceae	G5	S2				Beav, Deer, Gran, Madi	S
Senecio amplectens var holmii Clasping Groundsel	Asteraceae	G4T?	S1				Carb	P
Senecio eremophilus var eremophilus Desert Groundsel	Asteraceae	G5T5	SI				BigH, Hill, Park	S
Senecio pauciflorus Few-flowered Butterweed	Asteraceae	G4G5	SI				Flat	P
Shoshonea pulvinata Shoshonea	Apiaceae	G2G3	S1		S	S	Carb	RE
Sidalcea oregana Oregon Checker-mallow	Malvaceae	G5	S1				Gall, Lake	P
Silene spaldingii Spalding's Campion	Caryophyllaceae	G2	SI	P			Flat, Lake, Linc, Sand	RE
Sisyrinchium septentrionale Blue-eyed Grass	Iridaceae	<u>G3G4</u>	<u>S1</u>				Sher	P

MTNHP Vascular Plant Species of Special Concern, March 1999

MTNHP Vascular Plant Species of Special Concern, Scientific Name		Global	State	FWS	FS	BLM		Range
Common Name	Family	Rank	Rank	Status	Status	Status	County Distribution	Notes
Solidago ptarmicoides Prairie Aster	Asteraceae	G5	SI				Cart, Rich	P
Solidago sparsiflora Few-flowered Goldenrod	Asteraceae	G?	S1			W	Garf, Stil	S
Sphaeralcea munroana White-stemmed Globe-mallow	Malvaceae	G4	S1				Beav	P
Sphaeromeria argentea Chicken Sage	Asteraceae	G3?	S2			S	Beav	P
Sphenopholis intermedia Slender Wedgegrass	Poaceae	G5	SH			W	Gall	P
Spiranthes diluvialis Ute Ladies' Tresses	Orchidaceae	G2	<u>S2</u>	LT		W	Beav, Gall, Jeff, Madi	S
Sporobolus asper Longleaf Dropseed	Poaceae	G5	SH			W	Cart, Cust	Р
Sporobolus neglectus Small Dropseed	Poaceae	G5	SU			W	Gall, Sand, Whea	P
Stellaria crassifolia Fleshy Stitchwort	Caryophyllaceae	G5	S 1			W	Beav, Carb, Deer, Sand	P
Stellaria jamesiana James Stitchwort	Caryophyllaceae	G5	S1			W	Beav	P
Stephanomeria spinosa Spiny Skeletonweed	Asteraceae	G4	S1			W	Beav, Madi	Р
Stipa lettermanii Letterman's Needlegrass	Poaceae	G5	S1				BigH, Madi	P
Suckleya suckleyana Poison Suckleya	Chenopodiaceae	G5	SU				Muss, Roos, Vall	P
Sullivantia hapemanii var hapemanii Wyoming Sullivantia	Saxifragaceae	G3T3	<u>S2</u>			W	BigH, Carb	RE
Taraxacum eriophorum Rocky Mountain Dandelion	Asteraceae	G4	<u>S2</u>			S	Beav, Gran, Madi	S
Thalictrum alpinum Alpine Meadowrue	Ranunculaceae	G5	<u>S2</u>		S	S	Beav, Deer, Gran	S
Thelypodium paniculatum Northwestern Thelypody	Brassicaceae	<u>G2G3</u>	SH			S	Beav	RE
Thelypodium sagittatum ssp sagittatum Slender Thelypody	Brassicaceae	G4T?	S2				Beav, Flat, Gall, Lake	Р
Thelypteris phegopteris Northern Beechfern	Thelypteridaceae	G5	S2		S		Flat, Glac, Linc, Sand	Р
Thlaspi parviflorum Small-flowered Pennycress	Brassicaceae	G3	S2		S		Beav, Carb, Madi, Park, Silv	RE

MTNHP Vascular Plant Species of Special Concern, March 1999

Scientific Name Common Name	Family	Global Rank	State Rank	FWS Status	FS Status	BLM Status	County Distribution	Range Notes
Tofieldia pusilla Small Tofieldia	Liliaceae	G5	S2				Glac	P
Townsendia condensata Cushion Townsendia	Asteraceae	G4	S2			W	Beav, Glac, Madi, Park	RE
Townsendia florifer Showy Townsendia	Asteraceae	G5	S1			W	Beav, Madi	P
Trifolium cyathiferum Cup Clover	Fabaceae	G4	S1				Miss, Rava	P
Trifolium eriocephalum ssp arcuatum Woolly-head Clover	Fabaceae	G4T3?	<u>S2</u>		S		Rava	P
Trifolium gymnocarpon Hollyleaf Clover	Fabaceae	G4	S2		S		Gran, Rava	P
Utricularia intermedia Flat-leaved Bladderwort	Lentibulariaceae	G5	S1		S		Flat, Miss, Powe	P
Vaccinium myrtilloides Velvetleaf Blueberry	Ericaceae	G5	S1				Flat	P
Veratrum californicum California False-hellebore	Liliaceae	G5	S1		S	W	Gran	P
Viburnum lentago Nannyberry	Caprifoliaceae	G5	S1				BigH, Roos	P
Viguiera multiflora Many-flowered Viguiera	Asteraceae	G4G5	<u>S1</u>				Beav, Gall, Madi	P
Viola renifolia Kidney-leaf White Violet	Violaceae	G5	S3		S	W	Flat, Glac, Jeff, Lake, Linc, Miss, Silv, Teto	S
Waldsteinia idahoensis Idaho Barren Strawberry	Rosaceae	G3	SI		S		Miss	RE
Wolffia columbiana Columbia Water-meal	Lemnaceae	G5	S2			W	Flat, Lake, Miss, Rava	S
Zizia aurea Golden Alexanders	Apiaceae	G5	SH				Jeff	P

Watch Vascular Plant List, March 1999

The Watch Vascular Plant List is made up of two sets of species:

Limited distribution species (43 total) are species of biogeographic interest. They include species that are state endemics, and other species which are in highly restricted areas or habitats of the state. A process for compiling and presenting information on their distribution is under development.

Species of unresolved status (124 total) are species to evaluate for addition to the Montana Plant Species of Special Concern list in the future. The overriding status question fits into one of six cases revolving around taxonomy (taxonomic validity, resolving disputes of specimen identification), natural distribution (whether

there is a specimen voucher, whether or not it was brought into the state by humans), vulnerability as reflected in response to unnatural disturbance, and completion of base-level information compilation (accession records from major Montana herbaria, published sources and any needed consultation). We have also included a category for recurrent hybrids and for species new to science pending publications. A summary statement of their status is available upon request.

Collection label information and commentary are invited on any Watch List species, and MTNHP will continue evaluating their status. The scientific name and global rank of watch species are presented below.

				•	Unresc			olved			
cientific Name	Global Rank	State Rank	Limited Distribution	Native	Vulnerable	Compilation	Specimen	Report	Тахопоту	Hybrid	Publication
Achillea sibirica	G5?	SU		•							
Acorus americanus	G5	SU						•			
Agastache foeniculum	G4G5	SU			•						
Agoseris lackschewitzii	G4	S3	•								
Agrimonia gryposepala	G5	SU			•						
Agrostis borealis	G5	SU			•						
Amaranthus californicus	G4	SA			•						
Ambrosia acanthicarpa	G5	S4			•						
Ambrosia tomentosa	G4	SU			•						
Amsinckia lycopsoides	G?	SA			•						
Antennaria aromatica	G4	S3S4	•								
Antennaria neodioica ssp neodioica	G4G5T?	SU					•				
Antennaria pulcherrima	G4G5	SU					•				
Arabis sparsiflora var columbiana	G5TU	SU						•			
Arabis sparsiflora var subvillosa	G5T?	SU						•			
Artemisia longiloba	G5T4	SR						•			
Artemisia tilesii ssp unalaschcensis	G5T3T4	SU					•				
Aster foliaceus var lyallii	G3?	SR				•					
Aster simplex var ramosissimus	G5T?	SU						•			
Astragalus chamaeleuce	G5	S3	•								
Astragalus kentrophyta var kentrophyta	G5T4	S3				•					
Astragalus lentiginosus var salinus	G5T5	S3	•								
Astragalus leptaleus	G4	S3	•								
Astragalus miser var crispatus	G5T3?	SU				•					
Astragalus platytropis	G5	S3	•								
Astragalus racemosus var racemosus	G5T5	SU					•				

					U	nres	solved				
cientific Name	Global Rank	State Rank	Limited Distribution	Native	Vulnerable	Compilation	Specimen	Report	Тахолоту	Hybrid	Publication
Bidens comosa	G5	SU			•						
Bidens frondosa	G5	SU			•						
Bidens vulgata var schizantha	G5T?	SU			•						
Botrychium minganense	G4	S3									
Botrychium sp 2	G?	SU									•
Botrychium sp 3	G?	SU									•
Botrychium sp 4	G?	SU									•
Botrychium sp 5	G?	SU									•
Botrychium x watertonense	НҮВ	HYB	-							•	
Calamagrostis koelerioides	G5	SU		•							
Calamagrostis scopulorum	G5	SU					•				
Calamagrostis tweedyi	G2G3	S3									
Camissonia tanacetifolia	G5	SU						•			
Cardamine rupicola	G3	S3						Ť			
Carex aenea	G5	SU						•			
Carex brunnescens	G5	SU					•				
Carex chalciolepis	G5T?	SU				•					
Carex ebenea	G5	SU					•				
Carex eburnea	G5	SU			•						
Carex jonesii	G5	SU				•					
Carex lacustris	G5	SU				•					_
Carex luzulina var atropurpurea	G5T3	SU							•		
Carex microglochin	G5?	SU						•			
Carex misandra	G5	S3			•						
Carex nelsonii	G3?	SU			•						
Carex neurophora	G4	S3			•						
Carex pelocarpa	G4?	SU						•			
Carex straminiformis	G4	SU						•			
Carex torreyi	G4	S3			•			Ť			
Castilleja crista-galli	G3?	SU	-					•			—
Castilleja nivea	G3	SU									
Castilleja pilosa var longispica	G4?T4	S3									
Castilleja rustica	G4G5T3T4	S3	•						-		
Chrysothamnus linifolius	G5	S3			•						
Cirsium pulcherrimum	G5	SU	+					•			
Claytonia cordifolia	G5	SU				•		-			
Collomia debilis var camporum	G5T3	SU				•					
Conimitella williamsii	G3	SU				•					
Cordylanthus capitatus	G4	SU	+					•			
Cryptantha flavoculata	G5	S3									
Cryptantha humilis	G4?	SU	-		Ť						
Cryptogramma cascadensis	G5	SU				•		-			

					U	nres					
cientific Name	Global Rank	State Rank	Limited Distribution	Native	Vulnerable	Compilation	Specimen	Report	Taxonomy	Hybrid	Publication
Cuscuta pentagona var pentagona	G5T5	SU			•				-		
Cymopterus hendersonii	G5	S1							•		
Cypripedium x columbianum	НҮВ	HYB								•	
Delphinium bicolor ssp calcicola	G4G5T3	S3	•								
Delphinium burkei	G4	SU					•				
Delphinium geyeri	G5	SU							•		
Draba daviesiae	G3	S3	•								
Draba lonchocarpa var exigua	G4T3?	SU							•		
Draba sp 1	G3G4	S3	•								
Elatine americana	G4	SU			•						
Eleocharis bella	G5	SU							•		
Eleocharis flavescens	G5	SU						•			
Eleocharis xyridiformis	G4Q	SU	+-						•		_
Equisetum x ferrissii	НҮВ	HYB								•	
Equisetum x trachyodon	HYB	HYB								•	
Erigeron allocotus	G3	S3	•								
Erigeron coulteri	G5	SU			•						
Erigeron flabellifolius	G3	S3	•								
Erigeron flagellaris	G5	SU			0						
Eriogonum capistratum var muhlickii	G4T?	S3	•								
Eriogonum chrysocephalum	GUQ	SU							•		
Eriogonum lagopus	G3	S3	•								
Eriogonum umbellatum var aureum	G5TU	SU							•		
Eriophorum scheuchzeri	G5	SU				-		•			
Eriophorum viridicarinatum	G5	S3									
Euthamia graminifolia	G5	SU		-				•			_
Evax prolifera	G5	SU			•						
Floerkea proserpinacoides	G5	SU	-			•	-				
Galium cymosum	G?	SU	_		\vdash			•			-
Gentiana aquatica	G4	S3	•								
Gentiana prostrata	G5	SU			•						
Gentianella tenella	G4G5	SU									
Geum canadense	G5	SU				•					
Geum rossii var rossii	G5T5	SU						•		-	
Gilia inconspicua	G5	S3	•				-				
Gnaphalium purpureum var purpureum	G5TU	SA		•							
Grindelia nana var integrifolia	G5T4	SU							•		
Halenia deflexa ssp deflexa	G5TU	S3			•						
Halimolobos virgata	G4	S3	-		•						1
Haplopappus multicaulis	G4	S2S3	•			1					
Helenium hoopesii	G5	SU		-	•		-	-		1	
Heterotheca villosa var depressa	G5T3	SU	_		1	-				1	+

					U	nres	olve	red			
Scientific Name	Global Rank	State Rank	Limited Distribution	Native	Vulnerable	Compilation	Specimen	Report	Taxonomy	Hybrid	Publication
Hierochloe alpina	G5	SU						•			
Hierochloe odorata	G5	S3				•					
Huperzia haleakalae	G4?	SU				•					
Hymenopappus filifolius var idahoensis	G5T4	SU					•				
Hymenopappus filifolius var luteus	G5T?	SU					•				
Impatiens aurella	G4?	SU	-		•						
Impatiens ecalcarata	G3G4	S3			•	_					
Ipomopsis congesta ssp pseudotypica	G5T?	S2S3									
Isoetes lacustris	G5	SU						•			
Isoetes nuttallii	G4?	SU						•			_
Juncus interior	G4G5	SU	+				•				
Juncus triglumis	G5	SU			•						
Juncus tweedyi	G3Q	SU				•					
Juncus vaseyi	G5?	SU	+			•					
Lemna minuta	G4	SU	+		•						
Lemna valdiviana	G5	SU	+		•						
Ligusticum porteri	G4G5	SU	+					•			
Ligusticum verticillatum	G4G5	S2S3	+	1,611.							
Lilium columbianum	G4G5	SU	+	-	•						
Lilium philadelphicum	G5	S3	++		•						_
Lobelia kalmii	G5	SU	+			•			-		
Lomatium farinosum	G4G5	SU	+				•				
Madia minima	G4	S3	+		•	-					
Mimulus suksdorfii	G4	S3S4	1.		_						
Mirabilis hirsuta	G5	S3	+		•			-			
Muhlenbergia montana	G5	SU	+ +								
Myosotis verna	G5	S3	-		•			-			
Navarretia divaricata	G5	SU						•			
Oenothera elata ssp hirsutissima	G5T?	SU	+				•				
Oryzopsis contracta	G3G4	S3	-								
Oxalis stricta	G5	SA	-	•							
Oxytropis lagopus var conjugens	G4T3	S3	-								
Oxytropis nana var fallax		SU	+++		•						
Papaver pygmaeum	G3	S3			_						
Pedicularis contorta var rubicunda	G5T2	S3	•								
Pediocactus simpsonii	G4	S3	-								
Penstemon caryi	G3	S3	•								
Penstemon flavescens	G3	S3	-								
Penstemon laricifolius	G4	S3									
Penstemon montanus var idahoensis	G5T?	SU	+			•					
Physalis hederifolia var comata	G5?T4?	SU	-					•			
Physalis pumila	G5	SU	+								

cientific Name	Global Rank	State Rank	Limited Distribution	Native	Vulnerable	Compilation	Specimen	Report	Тахопошу	Hybrid	Publication
Physaria saximontana var dentata	G3T3	S3	•								
Platyschkuhria integrifolia var integrifolia	G5T?	S4	•								
Poa macroclada	G3?Q	SU						•			
Polygonum polygaloides	G4G5	SU			•						
Potentilla concinna var macounii	G2?	SU						•			
Rubus arcticus	G5	SU			•						
Salix petiolaris	G5	SU						•			
Saxifraga subapetala	G3G4Q	SU				•					
Scirpus pendulus	G5	SU		•							
Selaginella densa var standleyi	G5TU	SU				•					
Senecio congestus	G5	SU			•						
Senecio debilis	G3G4	S3	•								
Senecio hyperborealis	G5	SU							•		
Sparganium androcladum	G4G5	SU		•							
Sphaeromeria capitata	G3	S2S3	•								
Spiraea x pyramidata	HYB	HYB		_						•	
Sporobolus vaginiflorus	G5	SU		•							
Stanleya tomentosa	G4	S3									
Stipa lemmonii var lemmonii	G5T?	SU						•			
Stipa thurberiana	G5	SA		•							
Synthyris canbyi	G3	S3									
Synthyris missurica	G4	S1									
Teucrium canadense	G5	SU									
Thelesperma megapotamicum	G5	SU		•							
Tillaea aquatica	G5	SU		•							\vdash
Townsendia leptotes	G4	SU									\vdash
Townsendia nuttallii	G3	S3									\vdash
Townsendia spathulata	G3	S3		-						\vdash	\vdash
Tradescantia bracteata	G5	SU	-			-	•				
Trisetum x orthochaetum	HYB	HYB								•	-
Vaccinium ovalifolium	G5	SU				-		•			-
Verbena bipinnatifida	G5	SU				-	-	•		+	+-
Vernonia fasciculata ssp corymbosa	G5T?	SU						•		 	+
Viburnum opulus	G5	SU									+
Viola palustris	G5	SU					•			_	+
Viola pedatifida	G5	SU	-	-			<u> </u>				+
Viola septentrionalis	G5	SU	-		-	-	•	<u> </u>		+	+

Nonvascular Plant Species of Special Concern, March 1999

Introduction

The following list of mosses is based on a state floristic compilation prepared for the U.S. Forest Service and subsequent evaluation (Elliot 1995). It includes species with highly specialized habitat requirements, species which have not been collected for over 70 years, and other species which have not been collected more than three times in the state, including the most recent additions to the state flora. Global ranking follows that for vascular plants (see pages 1 and 2), however, state rank definitions for mosses have been modified as follows:

State	
Rank	Definition
S1	Potentially critical imperiled because of both species and habitat rarity (3 or fewer collections and highly restricted to rare habitat).
S2	Potentially imperiled because of both species and habitat rarity (20 or fewer collections and highly restricted to rare habitat).
SH	Historically known only from records before 1925; may be rediscovered.
SU	Unknown (3 or fewer collections but collection label is incomplete or habitat restrictions and habitat rarity are poorly known to rank the species).

Work is still underway to enter location records for mosses based on existing collections. Major Montana bryophyte collections are available for reference at the University of Montana and the U.S. Forest Service's Intermountain Research Station Resource Center Herbarium in Missoula. Moss collectors are encouraged to use the Plant Species of Special Concern Survey Form when submitting information to MTNHP

Selected References

Conrad, H. S. and P. L. Redfern. 1979. How to know the mosses and liverworts. Wm. C. Brown Co., Dubuque, Iowa. 302 pp.

Elliot, J. C. 1995. Rare mosses, rare habitats. Unpublished report for the 1995 Montana Rare Plant Conference. Conservation Biology Research, Helena, MT. 17 pp.

Lawton, E. 1971. Keys for the identification of the mosses of the Pacific Northwest (Reprinted from *Moss flora of the Pacific Northwest*). Hattori Botanical Lab., Nichinan, Japan. 66 pp.

Schofield, W. B. 1992. Some common mosses of British Columbia. Royal British Columbia Museum, Victoria, B.C. Canada. 394 pp.

Vitt, D. H., J. E. Marsh and R. B. Bovey. 1988. Mosses, lichens and ferns of northwest North America. Lone Pine Publishing, Edmonton, Alberta, Canada. 296 pp.

Scientific Name	Family	Global Rank	State Rank	FS Status	County Distribution
Bryophytes		·			2727.
Aloina brevirostris	Pottiaceae	G3G5	SH		
Amblyodon dealbatus	Meesiaceae	G3G5	SH		
Bartramia stricta	Bartramiaceae	G?	S1		Glac
Brachythecium reflexum	Brachytheciaceae	G4G5	SH		
Brachythecium turgidum	Brachytheciaceae	G4	S1		
Bryum calophyllum	Bryaceae	G?	SH		
Bryum lonchocaulon	Bryaceae	G?	S1		
Bryum pallens	Bryaceae	G4G5	S1		
Bryum schleicheri	Bryaceae	G?	S1		Glac
Bryum dichotomum	Bryaceae	G5?	S1		Rava
Bryum calobryoides	Bryaceae	G3	SH		
Callicladium haldanianum	Hypnaceae	G5	SH		
Calliergon richardsonii	Amblystegiaceae	G3	S1		Glac
Calliergon trifarium	Amblystegiaceae	G4	S1		Glac
Calliergonella cuspidata	Amblystegiaceae	G5	S1		
Catoscopium nigritum	Catoscopiaceae	G4G5	S1		
Cinclidium stygium	Mniaceae	G5	S1		
Crumia latifolia	Pottiaceae	G3	S1		
Cynodontium tenellum	Dicranaceae	G?	SH		
Dendroalsia abietina	Cryphaeaceae	G4	SH		
Desmatodon cernuus	Pottiaceae	G3G5	SH		

Scientific Name	Family	Global Rank	State Rank	FS Status	County Distribution
Bryophytes (con't)					
Desmatodon heimii	Pottiaceae	G5	S1		Rava
Dichodontium olympicum	Dicranaceae	G?	S1		
Dicranella grevilleana	Dicranaceae	G?	S1		Flat, Glac
Dicranella heteromalla	Dicranaceae	G?	S1		Flat, Glac
Dicranoweisia cirrata	Dicranaceae	G4	S1		Park
Dicranum acutifolium	Dicranaceae	G?	S1		Rava
Dicranum fragilifolium	Dicranaceae	G4G5	S1		Flat, Glac, Lake
Dicranum spadiceum	Dicranaceae	G?	S1		
Didymodon rigidulus var gracilis	Pottiaceae	G5T5?	S1		
Didymodon vinealis var brachyphyllus	Pottiaceae	G5T?	S1		Rava
Didymodon fallax var reflexus	Pottiaceae	G5T5?	S1		
Distichium inclinatum	Ditrichaceae	G4G5	S1		Glac
Entosthodon rubiginosus	Funariaceae	G2G3	SH		Casc
Eucladium verticillatum	Pottiaceae	G4	SI		Gran, Powe
Eurhynchium pulchellum var barnesii	Brachytheciaceae	G5T?	S1		Lake, Rava, Sand
Fabronia pusilla	Fabroniaceae	G5?	S1		Madi
Fissidens fontanus	Fissidentaceae	G5	SI		Gran
Funaria americana	Funariaceae	G2G3	SH		
Grimmia brittoniae	Grimmiaceae	G1	S1	S	Flat, Sand
Grimmia incurva	Grimmiaceae	G4G5	S1		Rava
Grimmia mollis	Grimmiaceae	G3G5	S1		Flat
Herzogiella striatella	Нурпасеае	G4G5	S1		
Herzogiella turfacea	Hypnaceae	G4G5	S1		
Hygroamblystegium noterophilum	Amblystegiaceae	G4	S1		
Hygrohypnum cochlearifolium	Amblystegiaceae	G?	S1		Linc
Hypnum callichroum	Нурпасеае	G?	S1		
Kiaeria blyttii	Dicranaceae	G5	S1		Flat
Kiaeria falcata	Dicranaceae	G5	S1		
Kiaeria starkei	Dicranaceae	G5	S1		Glac
Leucolepis acanthoneuron	Mniaceae	G4	S1		
Meesia longiseta	Meesiaceae	G3G4	SI		
Meesia triquetra	Meesiaceae	G5	S1	S	Lake, Rava, Teto
Meesia uliginosa	Meesiaceae	G4	S1		Flat, Glac
Mielichhoferia macrocarpa	Bryaceae	G2?	S1		•
Myurella tenerrima	Pterigynandraceae	G3?	S1		
Neckera douglasii	Neckeraceae	G4	S1		Flat, Lake
Neckera pennata	Neckeraceae	G5	S1		
Oligotrichum aligerum	Polytrichaceae	G5	S1		Linc
Orthotrichum praemorsum	Orthotrichaceae	G?	S1		Rava
Oxystegus tenuirostris	Pottiaceae	G5	SH		
Paludella squarrosa	Meesiaceae	G3G5	S1		Carb, Glac
Paraleucobryum enerve	Dicranaceae	G5?	S1		Glac
Paraleucobryum longifolium	Dicranaceae	G5	S1		Flat
Phascum cuspidatum	Pottiaceae	G5	S1		Rava
Physcomitrium hookeri	Funariaceae	G2G4	SH		
Physcomitrium pyriforme	Funariaceae	G5	SU		Rava
Plagiobryum demissum	Bryaceae	G?	S1		
Plagiobryum zieri	Bryaceae	G3G4	S1		

Scientific Name	Family	Global Rank	State Rank	FS Status	County Distribution
Bryophytes (con't)					
Platyhypnidium riparioides	Brachytheciaceae	G5	S1		
Pohlia drummondii	Bryaceae	G3G4	S1		
Pohlia obtusifolia	Bryaceae	G?	S1		
Pohlia vexans	Bryaceae	G?	SH		
Polytrichum lyallii	Polytrichaceae	G?	S1		
Porotrichum bigelovii	Thamnobryaceae	G4	S1		Rava
Pseudocalliergon turgescens	Amblystegiaceae	G3G5	S1		
Pseudocrossidium obtusulum	Pottiaceae	G?	S1		Rava
Pterygoneurum lamellatum	Pottiaceae	G?	S1		
Pterygoneurum subsessile	Pottiaceae	G4?	SI		Rava
Ptychomitrium gardneri	Ptychomitriaceae	G4	S1		20070
Racomitrium aquaticum	Grimmiaceae	G?	S1		
Racomitrium pygmaeum	Grimmiaceae	G?	S1		
Racomitrium brevipes	Grimmiaceae	G?	S1		
Sarmenthypnum sarmentosum	Amblystegiaceae	G4G5	S1		
Schistostega pennata	Schistostegaceae	G4	S1		
Scorpidium scorpioides	Amblystegiaceae	G4G5	S1	S	Flat, Miss, Teto
Seligeria donniana	Seligeriaceae	G4G5	S1	J	1 101, 141133, 1010
Sphagnum centrale	Sphagnaceae	G5	S1		Flat
Sphagnum compactum	Sphagnaceae	G5	S1		Gran
Sphagnum fimbriatum	Sphagnaceae	G5	S1		Lewi
Sphagnum girgensohnii	Sphagnaceae	G5	SI		2011
Sphagnum magellanicum	Sphagnaceae	G5	S1		Flat, Miss, Rava
Sphagnum mendocinum	Sphagnaceae	G4	S1		Miss
Sphagnum platyphyllum	Sphagnaceae	G5	S1		
Sphagnum riparium	Sphagnaceae	G5	S1		Miss
Sphagnum subnitens	Sphagnaceae	G5	S1		
Sphagnum wulfianum	Sphagnaceae	G5	S1		
Sphagnum contortum	Sphagnaceae	G5	S1		Flat
Sphagnum fallax	Sphagnaceae	G5	S1		- 100
Stegonia latifolia	Pottiaceae	G?	S1		
Tayloria acuminata	Splachnaceae	G3G4	SH		
Tayloria lingulata	Splachnaceae	G3G5	S1		Glac
Tayloria serrata	Splachnaceae	G4	SI		Madi
Tetraplodon angustatus	Splachnaceae	G3?	SI		Lewi
Thamnobryum neckeroides	Thamnobryaceae	G?	SH		
Tortula bartramii	Pottiaceae	G2G4	S1		Rava
Tortula muralis	Pottiaceae	G5	S1		200.00
Tortula norvegica	Pottiaceae	G5	S1		Glac, Lake, Madi
Tortula papillosa	Pottiaceae	G5	S1		Rava, Sand
Tortula caninervis	Pottiaceae	G?	S1		
Trachybryum megaptilum	Brachytheciaceae	G4	S1		
Warnstorfia exannulata	Amblystegiaceae	G5	S1		
Lichens					
Bryoria subdivergens	Parmeliaceae	G2	S1	c	Dave
Cetraria subalpina	Parmeliaceae	G2G3	S1	S	Rava
Collema curtisporum	Collemataceae	G2G3	SI SI	S S	

Forest Service Sensitive Plant List

Threatened Howellia aquatilis

Sensitive - Vascular Adoxa moschatellina Agastache cusickii Allium acuminatum Allium parvum Allotropa virgata Amerorchis rotundifolia Antennaria densifolia Aquilegia brevistyla Arabis fecunda Asclepias ovalifolia Astragalus barrii Astragalus lackschewitzii Astragalus scaphoides Athysanus pusillus Balsamorhiza macrophylla Bidens beckii Botrychium ascendens Botrychium crenulatum Botrychium hesperium Botrychium montanum Botrychium paradoxum Botrychium pedunculosum Brasenia schreberi Carex amplifolia Carex chordorrhiza Carex gravida var gravida Carex livida Carex parryana ssp idahoa Carex paupercula Carex prairea Carex rostrata Carex vaginata Castilleja covilleana Castilleja gracillima Castilleja pilosa var longispica Cirsium longistylum Clarkia rhomboidea Claytonia arenicola Cypripedium fasciculatum Cypripedium parviflorum Cypripedium passerinum Drosera anglica Drosera linearis Dryopteris cristata Eleocharis rostellata Elymus innovatus Epipactis gigantea Erigeron asperugineus Erigeron evermannii Erigeron lackschewitzii Eriophorum gracile Eupatorium occidentale Gentianopsis macounii Gentianopsis simplex Glossopetalon nevadense Goodyera repens Grindelia howellii Halimolobos perplexa var lemhiensis Haplopappus aberrans Haplopappus carthamoides var subsquarrosus

Haplopappus macronema var

macronema

Sensitive (continued)

Heteranthera dubia Heterocodon rariflorum Idahoa scapigera Juncus hallii Kalmia polifolia Lathyrus bijugatus Lesquerella humilis Lesquerella paysonii Lesquerella pulchella Liparis loeselii Lomatium geyeri Lomatogonium rotatum Lycopodium dendroideum Lycopodium inundatum Lycopodium sitchense Mertensia bella Mimulus patulus Mimulus primuloides Ophioglossum pusillum Orogenia fusiformis Oxytropis campestris var columbiana Oxytropis podocarpa Penstemon lemhiensis Penstemon payettensis Petasites frigidus var nivalis Phlox kelseyi var missoulensis

Phlox kelseyi var missoulensis
Polygonum douglasii ssp austinae
Potamogeton obtusifolius
Potentilla quinquefolia
Psilocarphus brevissimus var
brevissimus
Ranunculus jovis

Salix barrattiana Salix wolfii var wolfii Saussurea weberi Saxifraga tempestiva Scheuchzeria palustris Scirpus cespitosus Scirpus subterminalis Shoshonea pulvinata Thalictrum alpinum Thelypteris phegopteris Thlaspi parviflorum Trifolium eriocephalum ssp arcuatum Trifolium gymnocarpon Utricularia intermedia Veratrum californicum

Sensitive - Nonvascular Bryoria subdivergens Cetraria subalpina Collema curtisporum Grimmia brittoniae

Scorpidium scorpioides

Meesia triquetra

Waldsteinia idahoensis

Viola renifolia

Bureau of Land Management Sensitive Plant List

Sensitive

Agastache cusickii
Arabis fecunda
Astragalus ceramicus var apus
Astragalus geyeri var geyeri
Astragalus scaphoides
Astragalus terminalis
Camissonia andina
Camissonia parvula
Carex crawei
Carex parryana ssp idahoa
Cryptantha scoparia
Elymus flavescens
Eriogonum salsuginosum
Lesquerella carinata var languida

Lesqueretta carinata var tangu Lesquerella lesicii Lesquerella pulchella

Lomatium attenuatum Malacothrix torreyi Nama densum

Oenothera pallida var idahoensis Penstemon lemhiensis

Penstemon whippleanus Quercus macrocarpa Shoshonea pulvinata Sphaeromeria argentea

Taraxacum eriophorum Thalictrum alpinum Thelypodium paniculatum

Watch

Adoxa moschatellina Ambrosia acanthicarpa Amerorchis rotundifolia Arabis demissa var languida Asclepias ovalifolia Asclepias stenophylla

Astragalus aretioides Astragalus barrii

Astragalus convallarius var convallarius

Astragalus oreganus Astragalus racemosus var

longisetus
Atriplex truncata

Bacopa rotundifolia Balsamorhiza macrophylla

Bidens comosa Bidens vulgata var schizantha

Carex eburnea Carex gravida var gravida

Carex multicostata
Carex occidentalis
Carex torrevi

Castilleja gracillima Castilleja pilosa var longispica

Ceanothus herbaceus var pubescens Celastrus scandens

Centunculus minimus Cercocarpus montanus var glaber Chenopodium subglabrum Chrysothamnus linifolius

Chrysothamnus linifolius Chrysothamnus parryi ssp montanus Cleome lutea

Cryptantha fendleri Cryptantha humilis

Watch (continued)

Cyperus acuminatus
Cyperus schweinitzii
Cypripedium parviflorum
Dalea enneandra
Dalea villosa var villosa
Dichanthelium oligosanthes var
scribnerianum
Downingia laeta
Draba globosa
Eleocharis rostellata

Eleocharis rostellata
Elodea longivaginata
Epipactis gigantea
Erigeron asperugineus
Erigeron formosissimus

Erigeron formosissimus var viscidus Eupatorium maculatum var bruneri

Eustoma grandislorum Gentianopsis maccunii Gentianopsis simplex Grayia spinosa Halimolobos virgata

Haplopappus carthamoides var subsquarrosus

Hutchinsia procumbens Leptodactylon caespitosum Lomatium nuttallii Lomatogonium rotatum Mentzelia nuda

Mentzelia pumila Mirabilis hirsuta Najas guadalupensis Nuttallanthus texanus Oryzopsis contracta Penstemon angustifolius

Penaceina incana
Phacelia incana
Phacelia scopulina
Phacelia thermalis
Phlox andicola
Plagiobothrys leptocladus

Plagiobothrys leptocladus
Poa curta

Polygonum polygaloides Potentilla plattensis Primula alcalina

Primula incana Psilocarphus brevissimus var

brevissimus
Psoralea hypogaea
Ranunculus cardiophyllus
Ranunculus pedatifidus
Rorippa calycina
Salix serissima
Solidago sparsiflora

Sphenopholis intermedia Spiranthes diluvialis Sporobolus asper Sporobolus neglectus Stellaria crassifolia Stellaria jamesiana Stephanomeria spinosa

Sullivantia hapemanii var hapemanii

Townsendia condensata Townsendia florifer Townsendia nuttallii Veratrum californicum Viola renifolia Wolffia columbiana

Plant Species of Special Concern Survey Form

MONTANA NATURAL HERITAGE PROGRAM P.O. Box 201800, 1515 E. Sixth Avenue, Helena, MT 59620-1800

SCIENTIFIC NAME:	DATE OF SURVEY://
OBSERVER(S):	
WORK LOCATION / ADDRESS: Location: (attach a copy of pertinent 7.5' or 15' topo outlined, one map for each sensitive species described	graphic map section with locations of populations/subpopulations
COUNTY:	USGS QUAD:
TOWNSHIP: RANGE:	SEC.(s): ¼ SEC.:
ADDITIONAL T/R/S, SECTIONS OR 1/4 SEC.:	
NATL. FOREST DISTRICT/BLM DISTRICT RA/O	OTHER:
DIRECTIONS TO SITE (Refer to towns, roads, trails	s, other geographic features):
Species Autecology	
TOTAL NUMBER OF INDIVIDUALS (estimated o	r exact population count; sum clumps or stems if vegetative):
NUMBER OF SUBPOPULATIONS AND SUBTOT	'ALS (if applicable):
SIZE OF AREA COVERED BY POPULATION (ac	res):
PHENOLOGY (% flowering, fruiting, vegetative):	
EVIDENCE OF DISEASE, PREDATION, INJURY:	
EVIDENCE OF SEED DISPERSAL, ESTABLISHM	ENT:
POPULATION TREND/OTHER COMMENTS:	environment on next page, adding landform and the nature of the

ELEVATION (mean or range):	ASPECT: N NE E SE S SW W NW
% SLOPE: SLOPE SHAPE	cave Convex Straight Other
TOPOGRAPHY: Crest Upper Mid Lov	wer Bottom Other
MOISTURE: Dry Moist Saturated Inun	dated Seasonal seepage Other
LIGHT EXPOSURE: Open Shaded Partia	l shade Other
PARENT MATERIAL:	
SURFACE COVER (TOTAL %): MOSS/LICHEN	BASAL VEG BARE GROUND
SOIL TEXTURE/SERIES:	
CANOPY COVER: TREE (%) SHRUB	(%) FORB (%) GRAMINOID(%)
PLANT COMMUNITY: (dominant species at present,	age and structure notes):
	st common, conspicuous, and characteristic spp.):
EVIDENCE OF DISTURBANCE:	
Documentation:	er and depository):
	and repository):
IDENTIFICATION (name of person making determin	nation, and/or flora used):
	za sheets):
OTHER DOCUMENTATION OR REFERENCES: _ Comments:	